REMARKS

Claims 1-13 are presently pending and stand rejected under 35 U.S.C. § 103(a) as being obvious from the combination of Canfield in view of Quatieri.

Claim 1 recites, among other limitations, "replacing the initial phases of at least one of the frames with the ending phases of another frame". Examiner has indicated that Canfield discloses "replacing the initial phases of at least one of the frames with the ending phases of another frame (column 3, lines 30-67)". Office Action at 3.

Canfield, column 3, lines 30-67 merely recites:

 $||DAFA||ABRAY||(\frac{1}{2}dB0),D1,D2,D3,D4,D5,D6,D5|| = -||||Eq.3-||_{2Q}$

The addition theorem allows Eq. 3 to be divided into two arrays without changing the transform:

[BAPA ARRAY 1]-[DE, R. PZ, O. D4, O, P6, O] Eq. 4 [BAPA ARRAY 1]-[O, D1, O, D9, O, D5, O, D7] Eq. 5

where.

BATA ARBAY OHDATA ABRAY 11 (DATA ABRAY 21 Eg. 6

In this case each army would require 64 operations to perform a IPT thus doubling the number of operations. Ye, this situation must be examined further, With the Stretching Theorem, the transform of a settled army is the same as the transform of fish unstretched army is the same as the transform of fish unstretched army, except that it is "exposted. The fise that the amplitudes are labeled can be ignored tharing this discussion, because, the amplitudes will shift be present in the same ratios. (Zoast 1955).

X5000 BOATA ARRAY 15-070, F2, F4, F6, F0, F2, F4, F61 Eq. 7 50

As expected, the transform of the four data points is repeated that, if the zeros are removed from the array, the same commonents will result, but only once.

[DALA ARRAY 1]=[DA, DZ, D4, Inc] Eq. al. 55

None (Data ARRAY 1) | FQ, F2, F4, F6| E4, 9

In the same fashion:

BATA ARRAY 1/4/01, DA. DS. DS. DS. BQ 10

20mm (Onta ARRAY 0]-[F3, F3, F3, F7] Eq. 1

After the transforms in equations 9 and 11 are obtained the transforms of [DATA ARRAY 1] and [DATA ARRAY 2] as are combined. The transform of [DATA ARRAY 1] is obtained by stretching, or repeating the transform of [DATA

Assignee respectfully traverses the rejection and notes that the foregoing merely demonstrates "[I]f the 8 point array were split into two 4 point arrays, each 4

point DFT would need only 16 complex operations." Col. 3, Lines 19-21.

It is respectfully submitted that the combination of Canfield and Quatieri do not teach "replacing the initial phases of at least one of the frames with the ending phases of another frame". Accordingly, Assignee respectfully requests that Examiner withdraw the rejection to claims 1, 6, and 11, as well as to dependent claims 2-5, 7-10, and 12-15.

The Commissioner is authorized to charge such required fee to deposit Account No. 13-0017.

Respectfully submitted,

Mirut Dala

Attorney for Applicants Registration No. 44,052

Date: December 21, 2007

MCANDREWS, HELD & MALLOY, LTD. 500 W. Madison - 34th Floor Chicago, IL 60661 Phone: (312) 775-8000

Phone: (312) 775-8000 Fax: (312) 775-8100